

Certification Summary Information Report

Manufacturer	Tesla, Inc.	Manufacturer Code	TSL
Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--
Certificate Number	HTSLV00.0L2X-002-R01	CARB Executive Order #	--
Certificate Issue Date	12/20/2016	Certificate Revision Date	03/10/2017
Certificate Effective Date	12/20/2016	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	03/07/2017 09:47:09 PM
Model Year	2017		

Test Group Information

CSI Type	Running Change	Running Change Reference Number	01
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	Yes	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	HTSLEEVNNL2X	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	12/15/2016	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	--
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	HTSLV00.0L2X
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	Dual Motor Battery Electric Vehicle - No OBD requirements		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

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Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Tesla, Inc.	1 - Tesla Motors	75 - Model X P100D	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	72 - Model X 75D	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	74 - Model X P90D	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	73 - Model X 90D	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	71 - Model X 60D	Federal	All Wheel Drive	Automatic	1	No
Tesla, Inc.	1 - Tesla Motors	76 - Model X 100D	Federal	All Wheel Drive	Automatic	1	No

Engine Description

Hybrid Type	--	Hybrid Description	--
Engine Type	--	Mfr Engine Description	--
Engine Block Arrangement	--	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	--	Oil Viscosity/Classification	
Number of Cylinders/Rotors	--	Mechanically Variable Compression Ratio Indicator	--

After Treatment Device(s) (ATD)

Mfr After Treatment Device (ATD) Comments	--
Direct Ozone Reduction (DOR) Device	--
Mfr Emission Control Device Comments	--

Official Test Numbers

Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity		--	--	--	--	--	--	--	--	--	--

Official Charge Depleting Test Numbers

Test Group Fuel	UDDS	Highway
Electricity	GTSL10043912	GTSL10043913
Electricity	GTSL10038392	GTSL10038393
Electricity	GTSL10045364	GTSL10045365
Electricity	GTSL10038391	GTSL10038390
Electricity	GTSL10041067	GTSL10041068
Electricity	HTSL10046932	HTSL10046933

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Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	350	Battery Energy Capacity	250
Battery Specific Energy	150	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	2		
Motor/Generator Type 1	AC Induction	Rated Motor/Generator Power	193
Motor/Generator Type 2	AC Induction	Rated Motor/Generator Power	375
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	Three battery sizes (75kwh, 90kWh and 100kWh) is available for 2017MY Model X AWD vehicles.		

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Emission Data Vehicle Information

Vehicle ID / Configuration	XB116-L2X / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	GTSLV00.0L2X	Original Evaporative/Refueling Family	--
Original Test Vehicle Model Year	2016		

Vehicle Model

Represented Test Vehicle Make	Tesla Model X	Represented Test Vehicle Model	60D
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Electric Motor	Electricity

Hybrid Indicator	No		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	1	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	L2X	Rated Horsepower	417
Displacement (liters)	0.001		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	4-Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	5223	Equivalent Test Weight (pounds)	5500
GVWR (lbs)	6580	N/V Ratio	9.7
Axle Ratio	9.34		
Transmission Type	Direct Drive	# of Transmission Gears	1
Transmission Lockup	No	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)
City/Highway/Evap	37.68	0.0486	0.0214	-5.15	-0.1318	0.0204	12.5

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Emission Control Device Comments	No emissions control Device - Pure Electric Vehicle		
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration vehicle with 75kWh battery pack that is firmware limited to represent a 60kWh Battery Pack Individual HP is 193KW Front / 193 kW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

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Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--																																													
Test #	GTSL10043912	Test Procedure	81 - Charge Depleting UDDS																																													
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																													
Test Date	07/14/2016	Fuel	N/A																																													
Fuel Batch ID	--	Fuel Calibration Number	--																																													
Vehicle Class	N/A	DF Type	EPA Assigned																																													
Verify Test Lab ID	Fremont Dyno																																															
E10 Evaporative Test Measurement Method	--																																															
Test Start Odometer Reading	600	Odometer Units	M																																													
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																													
State of Charge Delta	--																																															
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																													
PHEV/EV TEST INFO																																																
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	72.62																																													
Charge Depleting Range (Calculated miles)	267.75	Charge Depleting Range (Actual miles)	267.75																																													
Equivalent All Electric Range (miles)	267.75																																															
Number of Charge Depleting Bags/Phases Conducted	1																																															
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13	System End State of Charge Watt-hours	0																																														
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Manufacturer Test Comments	MY2016 Model X 60D - UDDS																																															

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Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--																																													
Test #	GTSL10043913	Test Procedure	84 - Charge Depleting Highway																																													
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																													
Test Date	07/15/2016	Fuel	N/A																																													
Fuel Batch ID	--	Fuel Calibration Number	--																																													
Vehicle Class	N/A	DF Type	EPA Assigned																																													
Verify Test Lab ID	Fremont Dyno																																															
E10 Evaporative Test Measurement Method	--																																															
Test Start Odometer Reading	600	Odometer Units	M																																													
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																													
State of Charge Delta	--																																															
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																													
PHEV/EV TEST INFO																																																
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	72.65																																													
Charge Depleting Range (Calculated miles)	276.87	Charge Depleting Range (Actual miles)	276.87																																													
Equivalent All Electric Range (miles)	276.87																																															
Number of Charge Depleting Bags/Phases Conducted	1																																															
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13	System End State of Charge Watt-hours	0																																														
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Manufacturer Test Comments	MY2016 Model X 60D - HWFET																																															

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Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--
Emission Control Device Comments	No emissions control Device - Pure Electric Vehicle		
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration vehicle with 75kWh Battery Pack Individual HP is 193KW Front / 375 kW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--																																													
Test #	GTSL10041067	Test Procedure	81 - Charge Depleting UDDS																																													
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																													
Test Date	03/19/2016	Fuel	N/A																																													
Fuel Batch ID	--	Fuel Calibration Number	--																																													
Vehicle Class	N/A	DF Type	EPA Assigned																																													
Verify Test Lab ID	Fremont Dyno																																															
E10 Evaporative Test Measurement Method	--																																															
Test Start Odometer Reading	600	Odometer Units	M																																													
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																													
State of Charge Delta	--																																															
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																													
PHEV/EV TEST INFO																																																
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	86.41																																													
Charge Depleting Range (Calculated miles)	318.43	Charge Depleting Range (Actual miles)	318.43																																													
Equivalent All Electric Range (miles)	318.43																																															
Number of Charge Depleting Bags/Phases Conducted	1																																															
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Manufacturer Test Comments	MY2016 Model X 75D - UDDS																																															

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Test #	GTSL10041068	Test Procedure	84 - Charge Depleting Highway																																													
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																													
Test Date	03/19/2016	Fuel	N/A																																													
Fuel Batch ID	--	Fuel Calibration Number	--																																													
Vehicle Class	N/A	DF Type	EPA Assigned																																													
Verify Test Lab ID	Fremont Dyno																																															
E10 Evaporative Test Measurement Method	--																																															
Test Start Odometer Reading	600	Odometer Units	M																																													
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																													
State of Charge Delta	--																																															
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																													
PHEV/EV TEST INFO																																																
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	85.54																																													
Charge Depleting Range (Calculated miles)	330	Charge Depleting Range (Actual miles)	330																																													
Equivalent All Electric Range (miles)	330																																															
Number of Charge Depleting Bags/Phases Conducted	1																																															
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4	Carbon dioxide	0																																														
5	Carbon-Related Exhaust Emissions	0																																														
6	Drive Trace Absolute Speed Change Rating	0																																														
7	Drive Trace Energy Economy Rating	0																																														
8	Drive Trace Inertia Work Ratio Rating	0																																														
9	Integrated Amp-hours	0																																														
10	Manufacturer Fuel Economy	22.31																																														
11	Nitrogen Oxide	0																																														
12	Particulate Matter	0																																														
13	System End State of Charge Watt-hours	0																																														
14	System Start State of Charge Watt-hours	0																																														
Manufacturer Test Comments	MY2016 Model X 75D - HWFET																																															

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--																						
Emission Data Vehicle Information																									
Vehicle ID / Configuration	XB316-L2X / 0	Manufacturer Vehicle Configuration Number	0																						
Original Test Group Name	GTSLV00.0L2X	Original Evaporative/Refueling Family	--																						
Original Test Vehicle Model Year	2016																								
Vehicle Model																									
Represented Test Vehicle Make	Tesla Model X	Represented Test Vehicle Model	90D																						
Leak Family Details																									
Leak Family Identifier	--	Leak Family Name	--																						
Drive Sources and Fuel System Details																									
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> <tr> <td>2</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Electric Motor	Electricity													
Drive Source and Fuel#	Drive Source	Fuel																							
1	Electric Motor	Electricity																							
2	Electric Motor	Electricity																							
Hybrid Indicator	No																								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--																						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes																						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--																						
Off-board charge Capable Indicator	Yes																								
Odometer Correction -- Initial	2666.9	Odometer Correction Factor	1																						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor																								
Odometer Correction Units	Miles																								
Engine Code	L2X	Rated Horsepower	417																						
Displacement (liters)	0.001																								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'																							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--																						
Charge Air Cooler Type	--	Drive Mode While Testing	4-Wheel Drive																						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)																						
Curb Weight (lbs)	5331	Equivalent Test Weight (pounds)	5500																						
GVWR (lbs)	6662	N/V Ratio	9.7																						
Axle Ratio	9.34																								
Transmission Type	Direct Drive	# of Transmission Gears	1																						
Transmission Lockup	No	Creep Gear	No																						
Dynamometer Coefficients:																									
<table border="1"> <thead> <tr> <th colspan="3">Target Coefficients</th> <th colspan="3">Set Coefficients</th> <th rowspan="2">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</th> </tr> <tr> <th>Coefficient Category</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> </tr> </thead> <tbody> <tr> <td>City/Highway/Evap</td> <td>37.68</td> <td>0.0486</td> <td>0.0214</td> <td>-8.894</td> <td>-0.1713</td> <td>0.0207</td> <td>12.5</td> </tr> </tbody> </table>				Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	City/Highway/Evap	37.68	0.0486	0.0214	-8.894	-0.1713	0.0207	12.5
Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients																			
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City/Highway/Evap	37.68	0.0486	0.0214	-8.894	-0.1713	0.0207	12.5																		

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--
Emission Control Device Comments	No emissions control Device - Pure Electric Vehicle		
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration vehicle Rated HP - 417 combined front/rear motor Individual HP is 259HP Front / 259 HP Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--																																												
Test #	GTSL10038390	Test Procedure	84 - Charge Depleting Highway																																												
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																												
Test Date	08/20/2015	Fuel	N/A																																												
Fuel Batch ID	--	Fuel Calibration Number	--																																												
Vehicle Class	N/A	DF Type	EPA Assigned																																												
Verify Test Lab ID	Fremont Dyno																																														
E10 Evaporative Test Measurement Method	--																																														
Test Start Odometer Reading	3018	Odometer Units	M																																												
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																												
State of Charge Delta	--																																														
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																												
PHEV/EV TEST INFO																																															
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	93.84																																												
Charge Depleting Range (Calculated miles)	358	Charge Depleting Range (Actual miles)	358																																												
Equivalent All Electric Range (miles)	358																																														
Number of Charge Depleting Bags/Phases Conducted	1																																														
Charge Depleting Bag/Phase																																															
	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>358</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>23.3</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	358	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	23.3	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0	
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																													
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Manufacturer Test Comments	--																																														

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--																																													
Test #	GTSL10038391	Test Procedure	81 - Charge Depleting UDDS																																													
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																													
Test Date	08/19/2015	Fuel	N/A																																													
Fuel Batch ID	--	Fuel Calibration Number	--																																													
Vehicle Class	N/A	DF Type	EPA Assigned																																													
Verify Test Lab ID	Fremont Dyno																																															
E10 Evaporative Test Measurement Method	--																																															
Test Start Odometer Reading	2669	Odometer Units	M																																													
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																													
State of Charge Delta	--																																															
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																													
PHEV/EV TEST INFO																																																
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	94.239																																													
Charge Depleting Range (Calculated miles)	343.92	Charge Depleting Range (Actual miles)	343.92																																													
Equivalent All Electric Range (miles)	343.92																																															
Number of Charge Depleting Bags/Phases Conducted	1																																															
Charge Depleting Bag/Phase																																																
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Manufacturer Test Comments	--																																															

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Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--
Emission Control Device Comments	No emissions control Device - Pure Electric Vehicle		
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration vehicle Rated HP - 517 combined front/rear motor Individual HP is 259HP Front / 259 HP Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--																																													
Test #	HTSL10046932	Test Procedure	81 - Charge Depleting UDDS																																													
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																													
Test Date	02/24/2017	Fuel	N/A																																													
Fuel Batch ID	--	Fuel Calibration Number	--																																													
Vehicle Class	N/A	DF Type	EPA Assigned																																													
Verify Test Lab ID	Fremont Dyno																																															
E10 Evaporative Test Measurement Method	--																																															
Test Start Odometer Reading	2813	Odometer Units	M																																													
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																													
State of Charge Delta	--																																															
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																													
PHEV/EV TEST INFO																																																
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	116.083																																													
Charge Depleting Range (Calculated miles)	403.98	Charge Depleting Range (Actual miles)	403.98																																													
Equivalent All Electric Range (miles)	403.98																																															
Number of Charge Depleting Bags/Phases Conducted	1																																															
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	<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Actual Distance Driven (miles)</td> <td>403.98</td> </tr> <tr> <td>2</td> <td>Average System Voltage</td> <td>350</td> </tr> <tr> <td>3</td> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>4</td> <td>Carbon dioxide</td> <td>0</td> </tr> <tr> <td>5</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>6</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>8</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>9</td> <td>Integrated Amp-hours</td> <td>0</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>117.3</td> </tr> <tr> <td>11</td> <td>Nitrogen Oxide</td> <td>0</td> </tr> <tr> <td>12</td> <td>Particulate Matter</td> <td>0</td> </tr> <tr> <td>13</td> <td>System End State of Charge Watt-hours</td> <td>0</td> </tr> <tr> <td>14</td> <td>System Start State of Charge Watt-hours</td> <td>0</td> </tr> </tbody> </table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	403.98	2	Average System Voltage	350	3	Carbon Monoxide	0	4	Carbon dioxide	0	5	Carbon-Related Exhaust Emissions	0	6	Drive Trace Absolute Speed Change Rating	0	7	Drive Trace Energy Economy Rating	0	8	Drive Trace Inertia Work Ratio Rating	0	9	Integrated Amp-hours	0	10	Manufacturer Fuel Economy	117.3	11	Nitrogen Oxide	0	12	Particulate Matter	0	13	System End State of Charge Watt-hours	0	14	System Start State of Charge Watt-hours	0		
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12	Particulate Matter	0																																														
13	System End State of Charge Watt-hours	0																																														
14	System Start State of Charge Watt-hours	0																																														
Manufacturer Test Comments	Internal test result for MY2017 100D . Range determined by using SAE J1634 Multi-cycle test procedure																																															

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Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--
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Emission Data Vehicle Information

Vehicle ID / Configuration	XP316-L2X / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	GTSLV00.0L2X	Original Evaporative/Refueling Family	--
Original Test Vehicle Model Year	2016		

Vehicle Model

Represented Test Vehicle Make	Tesla Model X	Represented Test Vehicle Model	P90D
--------------------------------------	---------------	---------------------------------------	------

Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
-------------------------------	----	-------------------------	----

Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Electric Motor	Electricity

Hybrid Indicator	No		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	1	Odometer Correction Factor	1
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	L2X	Rated Horsepower	713
Displacement (liters)	0.001		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	4-Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	5441	Equivalent Test Weight (pounds)	5500
GVWR (lbs)	6773	N/V Ratio	9.7
Axle Ratio	9.34		
Transmission Type	Direct Drive	# of Transmission Gears	1
Transmission Lockup	No	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)
City/Highway/Evap	38.908	0.1197	0.02	-16.679	0.0232	0.0019	12.7

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--
Emission Control Device Comments	No emissions control Device - Pure Electric Vehicle		
Manufacturer Test Vehicle Comments	This is a Dual Motor Base configuration vehicle Rated HP - 713 Combined front/rear motor Individual HP is 259HP Front / 503 Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--																																													
Test #	GTSL10038392	Test Procedure	81 - Charge Depleting UDDS																																													
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																													
Test Date	08/21/2015	Fuel	N/A																																													
Fuel Batch ID	--	Fuel Calibration Number	--																																													
Vehicle Class	N/A	DF Type	EPA Assigned																																													
Verify Test Lab ID	Fremont Dyno																																															
E10 Evaporative Test Measurement Method	--																																															
Test Start Odometer Reading	2867	Odometer Units	M																																													
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																													
State of Charge Delta	--																																															
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																													
PHEV/EV TEST INFO																																																
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	94.09																																													
Charge Depleting Range (Calculated miles)	336.86	Charge Depleting Range (Actual miles)	336.86																																													
Equivalent All Electric Range (miles)	336.86																																															
Number of Charge Depleting Bags/Phases Conducted	1																																															
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Manufacturer Test Comments	--																																															

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--																																													
Test #	GTSL10038393	Test Procedure	84 - Charge Depleting Highway																																													
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																													
Test Date	08/21/2015	Fuel	N/A																																													
Fuel Batch ID	--	Fuel Calibration Number	--																																													
Vehicle Class	N/A	DF Type	EPA Assigned																																													
Verify Test Lab ID	Fremont Dyno																																															
E10 Evaporative Test Measurement Method	--																																															
Test Start Odometer Reading	1517	Odometer Units	M																																													
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																													
State of Charge Delta	--																																															
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																													
PHEV/EV TEST INFO																																																
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	94.729																																													
Charge Depleting Range (Calculated miles)	344.24	Charge Depleting Range (Actual miles)	344.24																																													
Equivalent All Electric Range (miles)	344.24																																															
Number of Charge Depleting Bags/Phases Conducted	1																																															
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Manufacturer Test Comments	--																																															

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Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	This is a Dual Motor Performance configuration vehicle with a 100kWh battery pack Rated HP 194kW Front , 375 kW Rear Axle Ratio Front Motor 9.34 Rear Motor 9.73		

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--																																													
Test #	GTSL10045364	Test Procedure	81 - Charge Depleting UDDS																																													
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																													
Test Date	08/18/2016	Fuel	N/A																																													
Fuel Batch ID	--	Fuel Calibration Number	--																																													
Vehicle Class	N/A	DF Type	EPA Assigned																																													
Verify Test Lab ID	Fremont Dyno																																															
E10 Evaporative Test Measurement Method	--																																															
Test Start Odometer Reading	1000	Odometer Units	M																																													
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																													
State of Charge Delta	--																																															
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																																													
PHEV/EV TEST INFO																																																
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	114.54																																													
Charge Depleting Range (Calculated miles)	382.3	Charge Depleting Range (Actual miles)	382.3																																													
Equivalent All Electric Range (miles)	382.3																																															
Number of Charge Depleting Bags/Phases Conducted	1																																															
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Manufacturer Test Comments	MY 2016 P100D - Retest #2 as agreed upon with EPA																																															

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--
Test #	GTSL10045365	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/21/2016	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	1200	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	114.26
Charge Depleting Range (Calculated miles)	410.02	Charge Depleting Range (Actual miles)	410.02
Equivalent All Electric Range (miles)	410.02		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	410.02	
2	Average System Voltage	350	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	0	
7	Drive Trace Energy Economy Rating	0	
8	Drive Trace Inertia Work Ratio Rating	0	
9	Integrated Amp-hours	0	
10	Manufacturer Fuel Economy	24.34	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	
Manufacturer Test Comments	MY 2016 P100D HWFET Retest# 2 as agreed upon with EPA		

Certification Summary Information Report

Test Group	HTSLV00.0L2X	Evaporative/Refueling Family	--
Fuel Properties			

Certification Summary Information Report

Test Group		HTSLV00.0L2X			Evaporative/Refueling Family		--		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 0		
Fuel		Electricity			Test Procedure		CVS 75 and later (w/o can. load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	--	0
150,000 miles	CREE	--	--	--	--	--	1	--	0

Certification Summary Information Report

Test Group		HTSLV00.0L2X	Evaporative/Refueling Family		--
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		METHANOL	CH3OH - Methanol	
CO	Carbon Monoxide		N2O	Nitrous Oxide	
CO2	Carbon dioxide		SPITBACK	Spitback Hydrocarbon in grams	
CREE	Carbon-Related Exhaust Emissions		AMP-HRS	Integrated Amp-hours	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		START-SOC	System Start State of Charge Watt-hours	
NOX	Nitrogen Oxide		END-SOC	System End State of Charge Watt-hours	
PM	Particulate Matter		ACT-DISTANCE	Actual Distance Driven (miles)	
PM-COMP	SFTP Composite Particulate Matter		AS-VOLT	Average System Voltage	
HC-NM	Non-methane Hydrocarbon		CO2 BAG 1	Bag 1 Carbon Dioxide	
OMHCE	Organic material Hydrocarbon Equivalent		CO2 BAG 2	Bag 2 Carbon Dioxide	
OMNMHCE	Organic material non-methane HC equivalent		CO2 BAG 3	Bag 3 Carbon Dioxide	
NMOG	Non-methane organic gas (California)		CO2 BAG 4	Bag 4 Carbon Dioxide	
HCHO	Formaldehyde		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
H3C2HO	Acetaldehyde		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		DT-ASCR	Drive Trace Absolute Speed Change Rating	
CO-COMP	SFTP Composite Carbon Monoxide		DT-EER	Drive Trace Energy Economy Rating	
ETHANOL	C2H5OH - Ethanol		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
FE BAG 1	Bag 1 Fuel Economy		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
FE BAG 2	Bag 2 Fuel Economy		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
FE BAG 3	Bag 3 Fuel Economy		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
FE BAG 4	Bag 4 Fuel Economy		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
MFR FE	Manufacturer Fuel Economy		LEAK-DIA	Effective Leak Diameter (inches)	
HC	Hydrocarbon for Running Loss and ORVR		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
METHANE	CH4 - Methane		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		L3ULEV340	California LEV-III ULEV340	
B2	Federal Tier 2 Bin 2		L3ULEV250	California LEV-III ULEV250	
B3	Federal Tier 2 Bin 3		L3ULEV200	California LEV-III ULEV200	
B4	Federal Tier 2 Bin 4		L3SULEV170	California LEV-III SULEV170	
B5	Federal Tier 2 Bin 5		L3SULEV150	California LEV-III SULEV150	

Certification Summary Information Report

Test Group		HTSLV00.0L2X	Evaporative/Refueling Family		--
B6	Federal Tier 2 Bin 6		L3LEV630	California LEV-III LEV630	
B7	Federal Tier 2 Bin 7		L3ULEV570	California LEV-III ULEV570	
B8	Federal Tier 2 Bin 8		L3ULEV400	California LEV-III ULEV400	
B9	Federal Tier 2 Bin 9		L3ULEV270	California LEV-III ULEV270	
B10	Federal Tier 2 Bin 10		L3SULEV230	California LEV-III SULEV230	
B11	Federal Tier 2 Bin 11		L3SULEV200	California LEV-III SULEV200	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		T3B160	Federal Tier 3 Bin 160	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		T3B125	Federal Tier 3 Bin 125	
L2	California LEV-II LEV		T3B110	Federal Tier 3 Transitional Bin 110	
L2OP	California LEV-II LEV Optional		T3B85	Federal Tier 3 Transitional Bin 85	
U2	California LEV-II ULEV		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
S2	California LEV-II SULEV		T3B70	Federal Tier 3 Bin 70	
ZEV	California ZEV		T3B50	Federal Tier 3 Bin 50	
OT	Other		T3B30	Federal Tier 3 Bin 30	
T1	Federal Tier 1		T3B20	Federal Tier 3 Bin 20	
PZEV	California PZEV		T3B0	Federal Tier 3 Bin 0	
L2LEV160	California LEV-II LEV160		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
L2ULEV125	California LEV-II ULEV125		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
L2SULEV30	California LEV-II SULEV30		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2LEV395	California LEV-II LEV395		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2ULEV340	California LEV-II ULEV340		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
L2LEV630	California LEV-II LEV630		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
L2ULEV570	California LEV-II ULEV570		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
L3LEV160	California LEV-III LEV160		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
L3ULEV125	California LEV-III ULEV125		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
L3ULEV70	California LEV-III ULEV70		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
L3ULEV50	California LEV-III ULEV50		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L3SULEV30	California LEV-III SULEV30		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L3SULEV20	California LEV-III SULEV20		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L3LEV395	California LEV-III LEV395		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		
F	2-Wheel Drive, Front	A	All Wheel Drive		
R	2-Wheel Drive, Rear				

Certification Summary Information Report

Test Group		HTSLV00.0L2X	Evaporative/Refueling Family		--
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	